

SHEET NO.1 15 SHEETS

* SECT. (12 & 13) T

DESIGN SPECIFICATIONS

AASHTO 2002 SPECIFICATIONS WITH INTERIMS.

LOADING HS20-44

ALLOW 50*/SQ.FT.FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 PSI fy = 60,000 PSI (REINFORCEMENT)

PRECAST UNITS

f'c= 5,000 PSI fy = 60,000 PSI (REINFORCEMENT)

TOTAL BILL OF	TAL BILL OF MATERIALS	
ITEM	UNIT	QUANTITY
CONCRETE BOX CULVERTS	CU. YD.	55.9
PRECAST CONCRETE BOX CULVERT 7' x 4'	F00T	410.4
REINFORCEMENT BARS	POUND	9,055
NAME PLATES	EACH	1
REMOVAL OF EXISTING STRUCTURES	EACH	1
TEMPORARY SHEET PILING	SO.FT.	3,845
STONE RIPRAP,CLASS A3	TON	140
FILTER FABRIC	SQ.YD.	25/
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU.YD.	OIĻI
POROUS GRANULAR BACKFILL	CU.YD.	2,615
WIRE FACED MECHANICALLY STABILZED EARTH WALL	SO.FT.	70

GENERAL NOTES

- I. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31,M-42 OR M-53 GRADE 60.
- 2. A DISTANCE NOT LESS THAN 6'-O' OF THE BARREL SHALL BE POURED MONOLITHICALLY WITH THE WING WALLS.
- 3. EXPOSED EDGES SHALL HAVE A 3/4 CHAMFER.
- 4. IN ACCORDANCE WITH ARTICLE 540,04 OF THE STANDARD SPECIFICATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH "REMOVAL OF EXISTING STRUCTURES". CLEAN FILL (GRANULAR) MATERIAL WILL ONLY BE ALLOWED.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY NECESSARY PERMITS FOR CULVERT CONSTRUCTION.
- 6. STRUCTURE EXCAVATION REQUIRED FOR CONSTRUCTION OF THE PROPOSED BOX CULVERT SHALL BE INCLUDED IN THE BID ITEM 'POROUS GRANULAR BACKFILL'.
- 7. UNDERCUT AND REPLACEMENT QUANTITIES HAVE BEEN PROVIDED FOR UNSTABLE SOILS THOUGHT TO BE PRESENT UNDER THE SOUTHERN END OF THE PROPOSED CULVERT BASED ON BORING B-S2.THE PRESENCE OF THE POOR SOILS WILL BE VERIFIED BY THE ENGINEER AND SOILS INSPECTOR DURING CONSTRUCTION ONCE THE AREA HAS BEEN CLEARED.
- 8. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M259 (DESIGN FILL HEIGHT- 2'-0")

U.S.30 OVER STREAM
0.3 MILES W.OF WOLF RD.
GENERAL PLAN
U.S.ROUTE 30 (LINCOLN HIGHWAY)
F.A.P.353 (U.S.30)
SECTION (12 & 13) T-I
STATION 293+05.00
WILL COUNTY
STRUCTURE NUMBER 099-4661